

In the Claims:

Please cancel claim 2, without prejudice.

Please amend claims 1, 3 and 6 as follows:

1. (Currently Amended) A magnetic head testing apparatus, comprising:
reference information storing means for holding a predetermined reference sampling period and a reference number of samplings;
sampling means for sampling reproduced data read out a plurality of times from a magnetic medium in said predetermined reference sampling period;
sampling number acquiring means for obtaining a sampling number of measured data from said reproduced data based on a result of sampling;
sampling number ratio calculating means for calculating a ratio of said sampling number of said measured data and a reference sampling number;
sampling data re-acquiring means for changing said sampling period of said measured data and re-acquiring sampling data depending on said calculated ratio; and
measured data overlap-displaying means for overlap-displaying said sampling data re-acquired from a plurality of measured data.

wherein said sampling number acquiring means further includes average value acquiring means for obtaining each average value of a difference between peak phases of preamble and postamble from said reproduced data having preamble, measured data, and postamble.

2. (Cancelled)

3. (Currently Amended) The magnetic head testing apparatus according to ~~claim 2~~claim 1, further comprising means for storing as an amplitude compensation coefficient a value obtained by dividing a calculated average value of levels at each bit position with an expected value, in order to set an amplitude at each said bit position of PR4 equalization to an expected value at a time of re-compensation of a reference phase position in a preamble part and postamble part, and for conducting an amplitude compensation by multiplying said amplitude compensation coefficient to data at a time of setting a first time axis to a second time axis of a reference waveform data.

4. (Original) The magnetic head testing apparatus according to claim 3, further comprising means for obtaining errors from an expected value for said each bit at said time of re-compensation of said reference phase position in said preamble part and postamble part, and means for conducting phase matching by obtaining an average of many bits of preceding and succeeding bits in the magnetic head testing apparatus.

5. (Original) The magnetic head testing apparatus according to claim 3, further comprising means for calculating and storing a Viterbi Metric Margin at a time of PRML process in said magnetic head testing apparatus.

6. (Currently Amended) A method of testing a magnetic head, comprising the steps of:

holding a predetermined reference sampling period and a reference number of samplings;

sampling reproduced data read out a plurality of times from a magnetic medium in said predetermined reference sampling period;

acquiring a sampling number of measured data from said reproduced data based on a result of sampling, said sampling number being acquired by obtaining each average value of a difference between peak phases of preamble and post-amble from said reproduced data having preamble, measured data, and post-amble;

calculating a ratio of said sampling number of said measured data and a reference sampling number;

re-acquiring sampling data depending on said calculated ratio and changing said sampling period of said measured data; and

overlap-displaying said sampling data re-acquired from a plurality of measured data.